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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/885,100      | 06/21/2001  | Joo-Hyoung Lee       | P56382              | 3922             |

7590 11/19/2003

Robert E. Bushnell  
Suite 300  
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EXAMINER

TRAN, TRANG U

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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2614

DATE MAILED: 11/19/2003

*Handwritten number 4*

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/885,100

Applicant(s)

LEE ET AL.

Examiner

Trang U. Tran

Art Unit

2614

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 4-12 and 15-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Kuo et al (US Patent No. 6,226,040 B1).

In considering claim 1, Kuo et al discloses all the claimed subject matter, note 1) the claimed a displaying part for displaying a picture is met by the video display device 250 (Fig. 2, col. 5, lines 26-37), 2) the claimed a selection input part for selecting for display a highlight portion within the picture of the displaying part is met by the infrared transmitter 260 which transmitted the selection input from the remote controller (Fig. 2, col. 5, lines 12-25), 3) the claimed a storage part for storing data according to the selection made through the selection input part is met by the storage device 267 which stored the position of the selected area (Fig. 2, col. 5, line 61 to col. 6, line 5), and 4) the claimed a controller for generating a highlight signal corresponding to the highlight portion based the selected data, for composing the highlight signal with video signals to thereby generate composed video signals, and for displaying the highlight portion within the picture of the displaying part based on the composed video signals is met by the

OSP signal generator 330 and the digital image processor 300 (Figs. 2-4, col. 5, line 61 to col. 7, line 33).

In considering claim 4, the claimed wherein the selection input part comprises a size control key for controlling a size of the highlight portion is met by the control signal 310 which is generated by the OSP signal generator 330 and the user can optionally adjust the position and size of the selected area (Fig. 2, col. 2, lines 50-55 and col. 5, line 61 to col. 6, line 39).

In considering claim 5, the claimed wherein the selection input part comprises a position control key for controlling a position of the highlight portion is met by the control signal 310 which is generated by the OSP signal generator 330 and the user can optionally adjust the position and size of the selected area (Fig. 2, col. 2, lines 50-55 and col. 5, line 61 to col. 6, line 39).

In considering claim 6, the claimed wherein the highlight signal comprises at least one color signal corresponding to the video signals; and the selection input part comprises a signal control key for controlling a level of said at least one color signal is met by the control signal 310 which is generated by the OSP signal generator 330 and the user can optionally adjust the colors and the brightness of the pixels within the selected area(s) (Fig. 2, col. 2, lines 50-55 and col. 5, line 61 to col. 7, line 67.)

Claim 7 is rejected for the same reason as discussed in claim 6.

Claim 8 is rejected for the same reason as discussed in claim 6.

Claim 9 is rejected for the same reason as discussed in claim 5.

Claim 10 is rejected for the same reason as discussed in claim 6.

Claim 11 is rejected for the same reason as discussed in claim 1.

Claim 12 is rejected for the same reason as discussed in claim 1.

Claims 15-17 are rejected for the same reason as discussed in claims 4-6, respectively.

Claim 18 is rejected for the same reason as discussed in claim 6.

Claim 19 is rejected for the same reason as discussed in claim 5.

Claim 20 is rejected for the same reason as discussed in claim 6.

Claim 21 is rejected for the same reason as discussed in claim 6.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2-3 and 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuo et al (US Patent No. 6,226,040 B1).

In considering claim 2, Kuo et al disclose all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed wherein the controller adds the highlight signal to the video signals to thereby increase the level of the composed video signals of the highlight portion. The capability superimposing the highlight signal on the video signal is old and well known in the art (note: superimposing highlight signal on the video signal will increase the level of the video signal). Therefore, the Official Notice is taken. It would have been obvious to one of ordinary skill in the art

at the time of the invention to incorporate the old and well known superimposing the highlight signal on the video signal into Kuo et al's system since it merely amounts of selecting an alternative equivalent device for adding highlight signal and video signal.

In considering claim 3, Kuo et al disclose all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed wherein the controller subtracts the highlight signal from the video signals to thereby decrease the level of the composed video signals of the highlight portion. Therefore, the Official Notice is taken. The capability desuperimposing the highlight signal on the video signal is old and well known in the art (note: desuperimposing highlight signal on the video signal will decrease the level of the video signal). It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the old and well known desuperimposing the highlight signal on the video signal into Kuo et al's system since it merely amounts of selecting an alternative equivalent device for removing highlight signal from video signal.

Claims 13-14 are rejected for the same reason as discussed in claims 2-3, respectively.

### ***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kondo et al (US Patent No. 6,434,326 B1) disclose information reproducing apparatus and method.

Jeong (US Patent No. 6,141,004) discloses method for playing menu digital video disc player.

Dias et al. (US Patent No. 6,122,011) disclose apparatus and method for creating or editing a channel map.

Martin (US Patent No. 5,790,818) discloses remote highlighting of objects in a conferencing system by logically anding the highlight bitmap and a foreground bitmap.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Trang U. Tran** whose telephone number is **(703) 305-0090**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **John W. Miller**, can be reached at **(703) 305-4795**.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

**(703) 872-9306 (for Technology Center 2600 only)**

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 308-HELP.

TT TT  
November 14, 2003



**MICHAEL H. LEE**  
**PRIMARY EXAMINER**